Claims

- 1. A delivery device for delivering an implant to an anatomical site in a body of a patient, the device comprising,
 - a handle, and
- a shaft having proximal and distal ends and shaped to describe a plurality of curves substantially in a single plane along its length, the proximal end of the shaft being attached to the handle.
- 2. The delivery device of claim 1, wherein the distal end of the shaft includes a substantially straight portion bent at an angle relative to the shaft.
- 3. The delivery device of claim 2, wherein the angle is determined to accommodate a pubic bone of a patient.
- 4. The delivery device of claim 2, wherein the bend is in a direction toward a pubic bone of a patient to reduce likelihood of inadvertently puncturing internal organs.
- 5. The delivery device of claim 2, wherein the angle relative to the shaft is about 90 degrees.
- 6. The delivery device of claim 2, wherein the angle relative to the shaft is greater than about 90 degrees.
- 7. The delivery device of claim 2, wherein the angle relative to the shaft is less than about 90 degrees.
- 8. The delivery device of claim 1, wherein a most distal one of the plurality of curves includes a concave portion and a convex portion and the bend is formed toward the concave portion.

- 9. The delivery device of claim 1, wherein at least one of the curves describes an arc of greater than about 45 degrees.
- 10. The delivery device of claim 1, wherein at least one of the plurality of curves describes an arc of greater than about 60 degrees.
- 11. The delivery device of claim 1, wherein at least one of the plurality of curves describes an arc of greater than about 90 degrees.
- 12. The delivery device of claim 1, wherein the handle and the shaft are reversibly attached.
- 13. The delivery device of claim 1, including a connector located at the distal end of the shaft for attaching to an end of the implant.
- 14. The delivery device of claim 13, wherein the connector is formed integral to the shaft.
- 15. The delivery device of claim 14, wherein the connector includes a slot formed in the shaft.
- 16. The delivery device of claim 14, wherein the slot extends from a surface of the shaft radially into the shaft and axially in a distal direction to form a substantially L-shape.
- 17. The delivery device of clam 13, wherein the connector includes a plug portion for interfitting with a receptacle on the end of the implant.
- 18. The delivery device of claim 13, wherein the connector includes a receptacle portion for interfitting with a mating connector on the end of the implant.

19. A delivery device for delivering an implant to an anatomical site in a body of a patient, the device comprising,

a handle, and

a shaft having proximal and distal ends, the proximal end being connected to the handle and the distal end including a substantially straight portion bent at an angle relative to the shaft.

- 20. The delivery device of claim 19, wherein the distal end of the shaft includes a substantially straight portion bent at an angle relative to the shaft and the bend being located along about a distal most 25% of the shaft.
- 21. The delivery device of claim 20, wherein the angle is determined to accommodate a pubic bone of a patient.
- 22. The delivery device of claim 20, wherein the bend is in a direction toward a pubic bone of a patient to reduce likelihood of inadvertently puncturing internal organs.
- 23. The delivery device of claim 20, wherein the angle relative to the shaft is about 90 degrees.
- 24. The delivery device of claim 20, wherein the angle relative to the shaft is greater than about 90 degrees.
- 25. The delivery device of claim 20, wherein the angle relative to the shaft is less than about 90 degrees.
- 26. The delivery device of claim 19, wherein the handle and the shaft are reversibly attached.
- 27. The delivery device of claim 19, including a connector located at the distal end of the shaft for attaching to an end of the implant.

- 28. The delivery device of claim 27, wherein the connector is formed integral to the shaft.
- 29. The delivery device of claim 28, wherein the connector includes a slot formed in the shaft.
- 30. The delivery device of claim 28, wherein the slot extends from a surface of the shaft radially into the shaft and axially in a distal direction to form a substantially L-shape.
- 31. The delivery device of clam 27, wherein the connector includes a plug portion for interfitting with a receptacle on the end of the implant.
- 32. The delivery device of claim 27, wherein the connector includes a receptacle portion for interfitting with a mating connector on the end of the implant.
- 33. A delivery system for delivering an implant to an anatomical site in a body of a patient, the system comprising,

an implant having first and second ends, and a delivery device comprising

a handle, and

a shaft having proximal and distal ends and shaped to describe a plurality of curves substantially in a single plane along its length, the proximal end of the shaft being attached to the handle.

- 34. The delivery system of claim 33, wherein the implant includes a sling for treating urinary incontinence.
- 35. The delivery system of claim 34, wherein the sling is configured for placement at a midurethral anatomical site in the body of a patient.

- 36. The delivery system of claim 33, wherein the distal end of the shaft includes a substantially straight portion bent at an angle relative to the shaft, the bend being located along about a distal most 25% of the shaft.
- 37. The delivery system of claim 36, wherein the angle is determined to accommodate a pubic bone of a patient.
- 38. The delivery system of claim 36, wherein the bend is in a direction toward a pubic bone of a patient to reduce likelihood of inadvertently puncturing internal organs.
- 39. The delivery system of claim 36, wherein the angle relative to the shaft is about 90 degrees.
- 40. The delivery system of claim 36, wherein the angle relative to the shaft is greater than about 90 degrees.
- 41. The delivery system of claim 36, wherein the angle relative to the shaft is less than about 90 degrees.
- 42. The delivery system of claim 33, wherein a most distal one of the plurality of curves includes a concave portion and a convex portion and the bend is formed toward the concave portion.
- 43. The delivery system of claim 33, wherein at least one of the curves describes an arc of greater than about 45 degrees.
- 44. The delivery system of claim 33, wherein at least one of the plurality of curves describes an arc of greater than about 60 degrees.

- 45. The delivery system of claim 33, wherein at least one of the plurality of curves describes an arc of greater than about 90 degrees.
- 46. The delivery system of claim 33, wherein the handle and the shaft are reversibly attached.
- 47. The delivery system of claim 33, including a connector located at the distal end of the shaft for attaching to the first end of the implant.
- 48. The delivery system of claim 47, wherein the connector is formed integral to the shaft.
- 49. The delivery system of claim 48, wherein the connector includes a slot formed in the shaft.
- 50. The delivery system of claim 48, wherein the slot extends from a surface of the shaft radially into the shaft and axially in a distal direction to form a substantially L-shape.
- 51. The delivery system of clam 47, wherein the connector includes a plug portion for interfitting with a receptacle on the end of the implant.
- 52. The delivery system of claim 47, wherein the connector includes a receptacle portion for interfitting with a mating connector on the end of the implant.
- 53. A method of delivering an implant to an anatomical site in a body of a patient, the method comprising,

inserting into a body of a patient a shaft having proximal and distal ends and shaped to describe a plurality of curves substantially in a single plane along its length, attaching the distal end of the shaft to a first end of an implant, and positioning the implant at an anatomical site within the body of the patient.

- 54. The method of claim 53 comprising inserting the shaft into the body of the patient suprapubically.
- 55. The method of claim 53 comprising inserting the shaft into the body of the patient prepubically.
- 56. The method of claim 53 comprising introducing the implant into the body of the patient transvaginally.
- 57. The method of claim 53, wherein the implant includes a sling for treating urinary incontinence and the method includes positioning the sling at a midurethral location.
- 58. A method of delivering an implant to an anatomical site in a body of a patient, the method comprising,

inserting into a body of a patient a shaft having proximal and distal ends, the proximal end being connected to the handle and the distal end including a substantially straight portion bent at an angle relative to the shaft,

attaching the distal end of the shaft to a first end of an implant, and positioning the implant at an anatomical site within the body of the patient.

- 59. The method of claim 58 comprising inserting the shaft into the body of the patient suprapubically.
- 60. The method of claim 58 comprising inserting the shaft into the body of the patient prepubically.
- 61. The method of claim 58 comprising inserting the shaft into the body of the patient transobturally.

- 62. The method of claim 58 comprising introducing the implant into the body of the patient transvaginally.
- 63. The method of claim 58, wherein the implant includes a sling for treating urinary incontinence and the method includes positioning the sling at a midurethral location.
- 64. The method of claim 60, wherein the implant includes a sling with first and second ends for treating urinary incontinence and the method includes positioning the sling in a loop around a midurethral location with the ends of the sling extending from the midurethral location along an anterior surface of the pubic bone of the patient.